



## Palo Alto Regional Water Quality Control Plant

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Test Site:	Palo Alto Regional Water Quality Control Plant
Location:	Palo Alto, California, USA
Size:	18 kW
Technology:	SolFocus Concentrator Photovoltaic (CPV) Systems 9.6 kW SF-1000 Systems 8.4 kW SF-1100 Systems
Installation Date:	April 2007

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The Palo Alto Regional Water Quality Control Plant, operated by the Public Works Department, is host to SolFocus' first CPV power plant. The installation was initiated in April 2007, and since that time, the solar arrays have been going through rigorous reliability testing and measurement, with panels being upgraded as the company's technology evolved. Today the facility houses the first SF-1100 system, along with four SF-1000 systems. The SF-1100 is SolFocus' showcase efficiency product which is now being built in high volume for deployment globally.

This public-private partnership between SolFocus and the City of Palo Alto is

evidence of the progress that can be made when such entities work together to further both sustainable environmental practices and economic development. Power generated from the SolFocus CPV systems is used to process water at the plant.

This waste water treatment facility has been progressive in its environmental efforts, including implementing several renewable energy solutions as a method of best practices in the daily operations of the plant. They recycle and reuse the treated products from the plant, namely, clean water and incinerator ash. They began a reclamation program in the late 1980s in response to the drought and the program continues to thrive today

resulting in the conservation of precious resources and the reduction of pollutants in the bay. The facility is classified as an advanced treatment facility providing tertiary treatment of wastewater in addition to primary and secondary treatment. They currently disinfect and filter up to 150 million gallons per year of recycled water to the highest standards for unrestricted beneficial reuse per California Code of Regulations.

SolFocus CPV technology is a good match to the small footprint and large energy-use at the facility. The tracking systems also match energy delivery closely to the use-curve of the facility.

